

## Checklist for Investigation Write-Ups Using the Scientific Method

### QUESTION

- I wrote a question that requires more than a “yes” or “no” answer.
- I wrote a question that is testable not researchable.
- I wrote a question that allows you to collect evidence.
- I wrote a question that states the independent and dependent variables to be tested/measured.
- **EXAMPLES:** How does the (I.V.) affect the (D.V.) ? or  
What is the effect of the (I.V.) on the (D.V.) ?



### PREDICTION / HYPOTHESIS

- I wrote a prediction that includes what I think will happen
- I have included a reason for my thinking (“because statement”).
- I have included evidence/an example for my thinking.



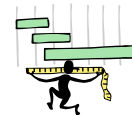
### EXPERIMENTAL PLAN

- I stated the independent and dependent variable.
- I stated the constants in my investigation.
- I carefully and thoughtfully wrote the steps of my investigation using complete sentences.
- I described my method of measuring and recording data.
- I used the appropriate number of trials in my investigation.



### COLLECTING DATA

- I accurately recorded quantitative observations and organized them in a chart or table.
- I used appropriate measurements and labels in my chart.
- I averaged the results of multiple trials.
- I included qualitative (the 5 senses) observations and/or scientific drawings as well.



### CONCLUSION

- In my summary, I restated the question clearly and completely.
- In my summary, I restated my prediction.
- I accurately graphed my mean/averages using appropriate titles, labels, and number values.
- I communicated whether my prediction was supported or not supported by the results/data of the investigation.
- I checked my results/data for a pattern (or trend) and stated what I found.
- If I found a pattern (or trend) I stated a pattern in real life similar to the pattern (or trend) I observed in my investigation. If I didn't find a pattern, I offered an explanation for the results not fitting the pattern (or trend).
- I suggested another variable for a future investigation.

